Amendments to the Specification

Please replace paragraphs [0138]-[0143] of the specification with the following amended paragraphs [0138]-[0143]:

- FIGS. 21A, B, C and D illustrate an example implementation of the receiver 100. FIG 21A illustrates example implementations of the <u>difference detector</u>

 2102measuring module 2002 and the ADC 21042004. FIG. 21B and 21C illustrate example implementations of the equalizer control module 2006. FIG 21D is an example state diagram 2108 for implementing a state machine 2106 illustrated in FIGS. 21B and 21C. Operation of these example embodiments are now described.
- [0139] Referring to FIG. 21A, the <u>difference detector 2102</u>measuring module 2002receives the equalized analog data signal <u>1906</u>104. An amplitude module 2101 measures an amplitude of the equalized analog data signal <u>1906</u>104. In an embodiment, the amplitude module 2101 determines absolute amplitudes of the equalized analog data signal <u>1906</u>104.
- [0140] A control logic module 2112 determines whether a portion of the equalized analog data signal 1906104 is a steady state soft portion or a post-transition portion.
- [0141] A switching system 2110 directs the amplitudes of the equalized analog data signal 1906104to a transition path 2114 or a no-transition path 2116, according to controls from the control logic module 2112. In an embodiment, the control logic module 2112 is part of the phase path 704.
- [0142] Transition path 2114 and no-transition path 2116 sample and integrate the amplitudes of the equalized analog data signal 1906104to obtain average values of

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post-transition and steady state portions, respectively. A combiner 2118 outputs an average difference 2120 between post-transition and steady state values.

The average difference 2120 is provided to the ADC 21042004, which outputs a digital representation 2122 of the average difference 2120. In an embodiment, the ADC 21042004 is implemented as a high/med/low system that compares the average difference 2120 with a plurality of pre-determined values, whereby the ADC 21042004 outputs a thermometer code that indicates which, if any, of the plurality of predetermined values are exceeded by the average difference 2120.

Atty. Docket No.: 1875.0560003